

# PAWEŁ BALAWENDER

COMPUTER SCIENCE MAJOR

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<https://github.com/eerio>

## EDUCATION

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### University of Warsaw

October 2020 – July 2025

- Bachelor of Computer Science (4.5 / 5.0, July 2023). Began my Master's in October 2023.
- Selected as one of the top 8 students for a special course of study during the sophomore year.
- Extracurricular courses: Information Theory, Category Theory, Advanced Functional Programming.

### Dulwich College London

September 2019 – July 2020

- Was granted a full-boarding scholarship for the A-Level course. Started at university after Year 12.

## WORK EXPERIENCE

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### Goldman Sachs

Summer Analyst

(July 2022 – September 2022)

- Optimized SQL queries. Reduced execution time of one of them from 10 minutes to under a second.
- Deployed a monitoring application in Python using Docker, Kubernetes, and Terraform.
- Team leader for the Community teamwork volunteers.

### University of Warsaw (European Research Council grant)

Junior researcher

(since October 2022)

- Joined the TUgBOAT research group to fight misinformation in Twitter on Ukrainian refugees in Poland.
- In a team of 4, implemented a deep-learning based system which detects new harmful tweets on Twitter and generates responses to them.
- Presented part of the work as my bachelor thesis. It received a score of 5/5.
- Currently working on an actual fact-checking system that will provide a verified source in the response.

### MIM Solutions

Junior ML Engineer

(October 2020 – September 2021)

- Used Natural Language Processing for classification of textual data.
- Deployed a web application using Google Cloud Platform.
- Visualized data and fine-tuned large language models.

## COMPETITIONS AND PERSONAL PROJECTS

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### Multilayer Perceptron with Backpropagation in Numpy

(November 2022)

- Implemented a neural network from scratch in Numpy for my Deep Neural Networks course.
- The code contains extensive documentation, especially the backpropagation part.
- For the details, please take a look at: <https://github.com/eerio/mlp-checkpointing>

### Award from the Polish Ministry of Education

(July 2020)

- Received a personal award from the Ministry, awarded to the most accomplished students of the year.

### European Union Contest for Young Scientists

(October 2019 - June 2020)

- In a team of 2, designed a power-management system for Unmanned Aerial Vehicles.
- Developed bare-metal drivers in C and Assembly for an STM32 microcontroller.

### Operating System for the Cortex-M0 microprocessor

(November 2018 - March 2019)

- Got 1st place in Poland in MeetIT Foundation's competition.
- Designed a minimalistic operating system supporting FAT file system and threading.
- Written a custom SDHC card driver using only the official standard as documentation.

## SKILLS

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**Main Skills** C, C++, Python, Linux, Data analysis

**Side Skills** Java, Haskell, SQL, PyTorch

**Languages** Native in Polish; C1 in English